

CLAIM AMENDMENTS

1 1. (currently amended) An electric motor for powering
2 downhole tools, the motor comprising:
3 a first stator;
4 a second stator;
5 conductive windings;
6 a ~~n~~ axially located rotatable shaft centered on and
7 extending along an axis and including a first magnetic element and
8 a second magnetic element; and
9 coaxial inner and outer tubes defining a sealed annular
10 chamber defined by a first tube, and a second tube concentrically
11 inside the first tube, holding the first and second stators being
12 located in the annular chamber, the first magnetic element being
13 aligned with the first stator and the second magnetic element being
14 aligned with the second stator such that when the windings are
15 energized the stators act on the magnetic elements.

1 2. (original) An electric motor according to claim 1,
2 wherein the conductive windings comprise a first set of coil
3 windings disposed in the first stator and a second set of coil
4 windings disposed in the second stator.

1 3. (currently amended) An electric motor according to
2 claim 1, wherein there are provided more than two stators located
3 in the annular cavity, and a corresponding number of magnetic
4 elements.

1 4. (currently amended) An electric motor according to
2 claim 1, wherein the second inner tube is disposed secured in the
3 outer tube and ~~secured~~ by swaging.

1 5. (previously presented) An electric motor according
2 to claim 1, wherein the rotatable shaft comprises separately formed
3 shaft elements which are secured together in series.

1 6. (original) An electric motor according to claim 5,
2 wherein a first shaft element is disposed within the first stator,
3 and a second shaft element is disposed within the second stator.

1 7. (previously presented) An electric motor according
2 to claim 1, wherein the outer tube comprises separately formed
3 outer tube elements which are secured together in series.

1 8. (previously presented) An electric motor according
2 to claim 1, wherein the outer tube is at least partially secured to
3 the modules by inward radial deformation.

1 9. (currently amended) An electric motor according to
2 claim 1, wherein the second inner tube is made from a
3 non-magnetizable material.

1 10. (previously presented) An electric motor according
2 to claim 1, wherein the chamber includes a pressure compensation
3 means.

1 11. (currently amended) An electric motor according to
2 claim 10, wherein the pressure compensation means is ~~provided by~~
3 ~~the annular seals being axially slidable~~ annular seals.

1 12. (currently amended) An electric motor according to
2 claim 1, wherein ~~[[the]]~~ a connection of the windings to ~~[[the]]~~ a
3 power supply is enclosed in the sealed chamber.

1 13. (previously presented) An electric motor according
2 to claim 1, wherein the rotor is connected to a pump.

1 14. (previously presented) An electric motor according
2 to claim 1, wherein inner tube forms an internal bore for the
3 passage of well fluids.

1 15. (currently amended) An electric motor suitable for
2 installing in a borehole for powering downhole tools comprising
3 a stator including a first set of coil windings;
4 a rotatable shaft including a magnetic element;
5 ~~an annular cavity defined by an outer~~ [[first]] hollow
6 tube [[,]] and an inner second tube concentrically inside the
7 [[first]] outer tube together defining an annular chamber, the
8 second inner tube including defining a flowpath, the stator [[s]]
9 being located in the annular cavity chamber, the rotatable shaft
10 and the magnetic element being at least partially tubular.

1 16. (currently amended) An electric motor according to
2 claim 15, wherein the rotatable shaft is located radially outside
3 the stator with the magnetic element ~~the being~~ aligned with the
4 stator such that the stator when energized can act upon the
5 magnetic element.

1 17. (currently amended) An electric motor according to
2 claim 15, wherein there are provided more than two stators located
3 in the annular cavity chamber, and a corresponding number of
4 magnetic elements.

1 18. (currently amended) An electric motor according to
2 claim 15, wherein the second inner tube is disposed secured in the
3 outer tube and ~~secured~~ by swaging.

1 19. (previously presented) An electric motor according
2 to claim 15, wherein the rotatable shaft comprises separately
3 formed shaft elements which are secured together in series.

1 20. (currently amended) An electric motor according to
2 claim 15, wherein the second inner tube is made from a
3 non-magnetizable material.

1 21. (previously presented) An electric motor according
2 to claim 15, wherein the chamber includes a pressure compensation
3 means.

1 22. (original) An electric motor according to claim 21,
2 wherein the pressure compensation means is ~~provided by the annular~~
3 ~~seals being axially slidable~~ annular seals.

1 23. (currently amended) An electric motor according to
2 claim 15, wherein ~~[[the]]~~ a connection of the windings to a DC
3 supply is enclosed in the sealed chamber.

1 24. (previously presented) An electric motor according
2 to claim 15, wherein the rotor is connected to a pump.